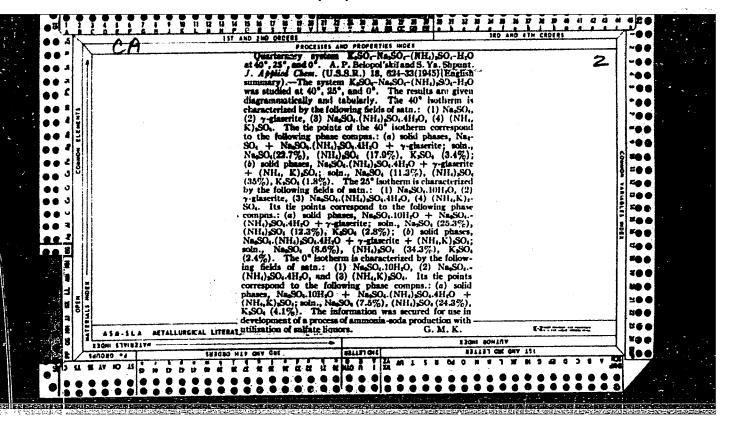
SHPUNT, S. YA.

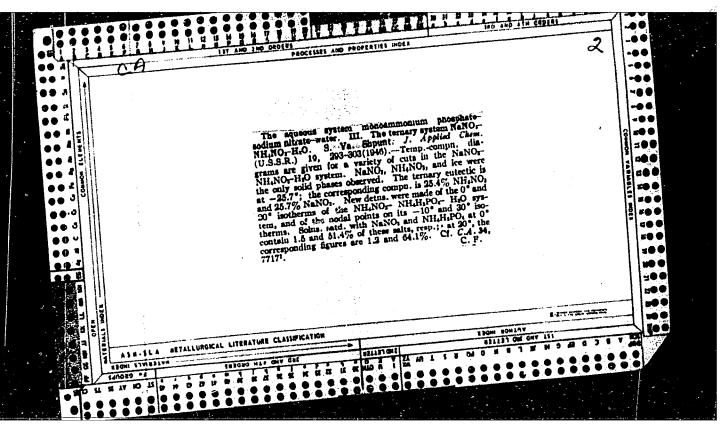
\*\*Partial Pressures of NH3 CO2 and H2O over (NH4)2SO4 and NH4O1 Solutions, A. P.

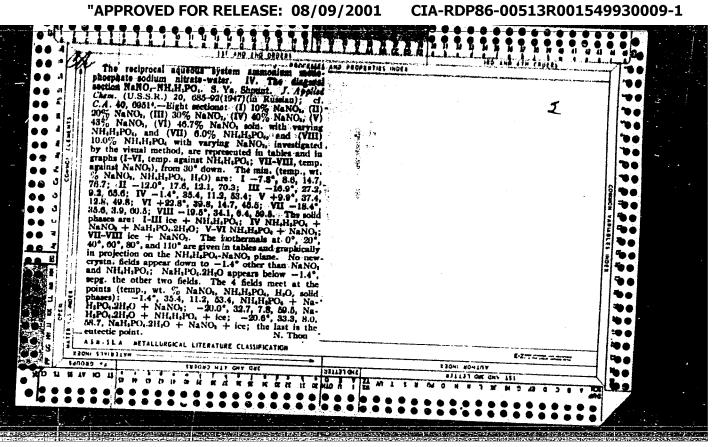
\*\*Belopol'skiy, S. Ya. Shount, I. M. Palkina, Works of the Sci inst of Fort and Investment in Ya. V. Samoylov, 1940, No 144, pp 125-9. Khim Referat Zhur, IV, No 6, 82-3 (1941)

(SEE: Inst. Insect/Fung. in Ya. V. Samoylov)

SO: U-237/49, 8 April 1949







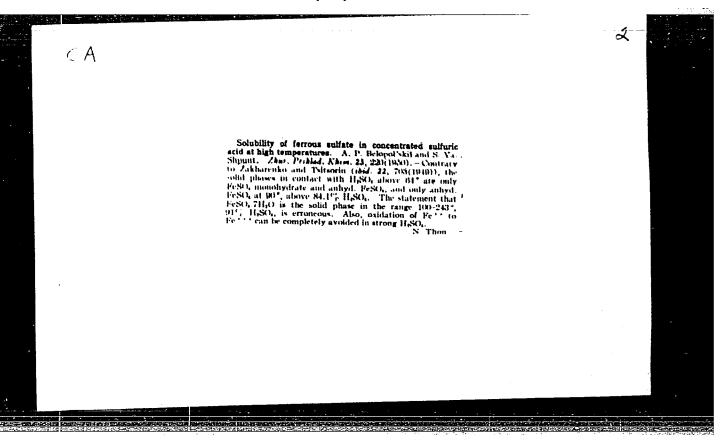
SHPUNT, S. IA.

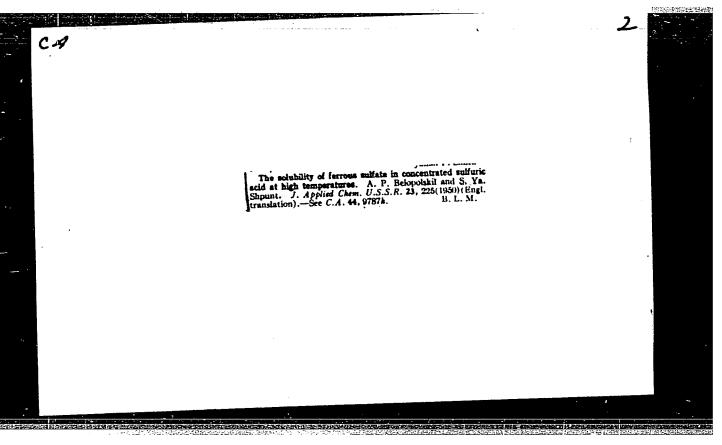
A.P. Belopol'skii, V.N. Kolycheva, and S. Ia. Shount, The system FeSO4-H2SO4-H2O. III The solubility of FeSO4. 7100 in water solutions of sulfuric acid at temperatures from + 10 to +500. P. 794.

The solubilities of FeSO<sub>4</sub> • 7H<sub>2</sub>O in water solutions of sulfuric acid at temp. below 50° have been studied. The solubility of the heptahydrate decreases considerably with increase of concentration of sulfuric acid and with lowering of temp. It is shown that at 50° heptahydrate if precipitated from the super saturated solution at H<sub>2</sub>SO<sub>4</sub> concentrations lying beyond the stable region of existence of hepta and tetrahydrate.

Lab. of Physico-chemical Analysis of the Scientific Institute of Fertilizers, Insecticides and Fungicides August 25, 1947

SO: Journal of Applied Chemistry (USSR) 21, No. 8, August (1948)





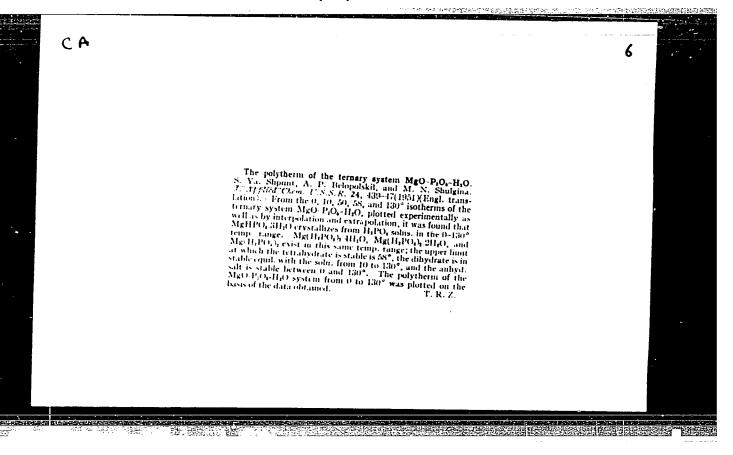
HI-4

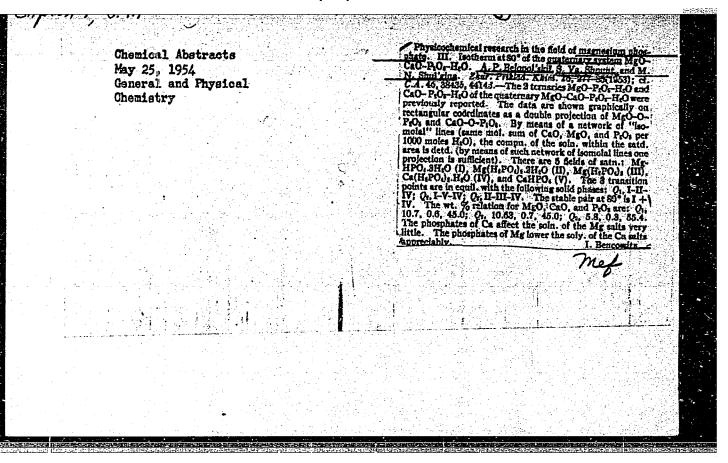
13 A

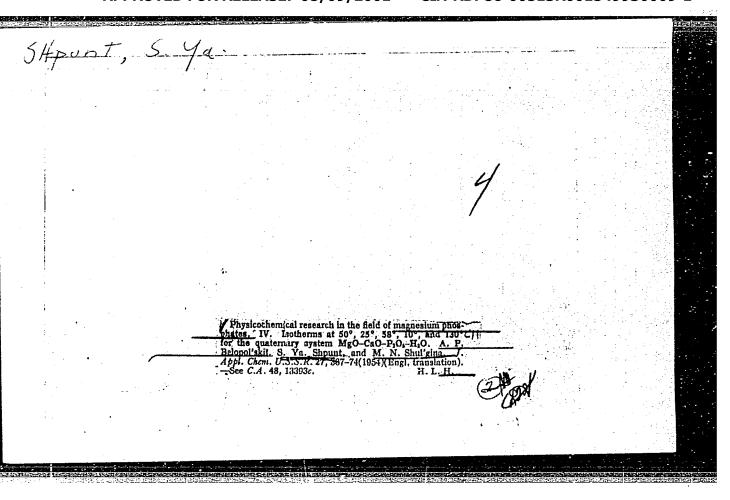
Physico-chemical investigation of magnesium phosphate system: MgO P<sub>2</sub>O<sub>3</sub> H<sub>4</sub>O at 29 and 80. A. P. Belopolsky, S. Ya. Shpunt, and M. Shul'gina (J. appl. Chem. USSR. 1950, 23, 823–836). The solubility isotherm at 25 for (P<sub>2</sub>O<sub>3</sub> varying from 0.03 to 70 wt % consists of four branches which represent the equilibrium with the following four solids: MgHPO<sub>6</sub>, 3H<sub>2</sub>O (H). Gequilibrium with the following four solids: MgHPO<sub>6</sub>,3H<sub>2</sub>O (H). Got the first time: Mg(H<sub>2</sub>PO<sub>6</sub>,2H<sub>2</sub>O (HI)), and Mg(H<sub>2</sub>PO<sub>6</sub>, 4H<sub>2</sub>O (II). The invariant points in order of increasing P<sub>2</sub>O<sub>3</sub> content are \(\lambda\) with solid phases I and II containing 4-6% MgO and 33-1% P<sub>2</sub>O<sub>3</sub>. An with solid phases III and III containing 4-6% MgO and 33-1% P<sub>2</sub>O<sub>3</sub>. An A with solid phases III and III containing 3-2% MgO and 59-6% and \(\lambda\) with solid phases III and III containing 3-2% MgO and 59-6% and \(\lambda\) a with solid phases III and III containing 3-2% MgO and 59-6% and \(\lambda\). P<sub>2</sub>O<sub>4</sub> is the branches at which the solid phases are I, III., and IV. The invariant points have the solid phases are I, III., and IV. The invariant points have the solid phases I and III), \(\lambda\), MgO and Self-10. All solutions at a substant of the respectively, and they are therefore the solutions of the respectively, and they are therefore the solutions of the respectively and they are therefore the solutions of the respectively as precipitated and H<sub>2</sub>PO<sub>4</sub> goes into solution. The solution of MgHi-O<sub>4</sub> increases with the content of "free "H<sub>3</sub>PO<sub>4</sub> uplant of the solution of the solution of the solution of the specific manufactor of mgHi-O<sub>4</sub> increases with the content of "free "H<sub>3</sub>PO<sub>4</sub> uplant of the solution of the solution of the solution of the solution of the specific manufactor of mgHi-O<sub>4</sub> increases with the content of "free "H<sub>3</sub>PO<sub>4</sub> uplant of the solution of the soluti

in solution whilst the solubility of IV decreases and the solubilities of II and III pass through a min. The solubility of IV is almost of III not provided in the provided in the provided increases with temp. The degree of neutralisation of the first H ion in  $H_8PO_4$  by MgO in sautrated solutions is much higher than in the system CaO-P<sub>2</sub>O<sub>4</sub>-H<sub>2</sub>O for the same content of  $P_8O_4$ , bence the decomposition of natural Mg phosphates by acids will proceed much more slowly than of Ca phosphates and the amount of  $H_8PO_4$  required will be much higher in the first case. The degree of neutralisation increases with temp. for equal  $P_8O_6$  comen. The degree of decomposition of IV by water has been calculated for different ratios of IV to  $H_8O_7$ . It is much lower than in the case of  $Ca(H_8PO_4)_2$  and is almost independent of temp. between 25° and [87], whilst it increases strongly with temp. for  $Ca(H_8PO_4)_2$ . There is no decomposition up to 28-7 g. of IV per 100 g.  $H_8O_8$ . Up to this come the whole, IV goes into solution.  $Ca(H_8PO_4)_2$  starts to decomposition of the properties of the ratio of 1 g of anhyd. phosphate per 100 g.  $H_8O_8$ .

USSR/Chemistry - Magnesium Compounds  "Polytherms of the Triple System MgO-P2-H2O," S. Ya. Shpuit, A. P. Belopol'skiy, M. N. Shulgina, Physicochem Anal Lab WiUIF (Sci Res Inst of Fertilizers and Insectofungicides)  "Zhur Prik Khim" Vol XXIV, No 4, pp 404-412  Studied isotherms at 0, 10, 50, 58, and 130° of syst experimentally and by interpolation and extrapolation. At 0-130° magnesium diphosphate in experimentally and by interpolation and extrapolation. At 0-130° magnesium monophosphate is represented by 2 crystallowdrates: Mg(H2P04)2.4H20,  WG(H2P04)2.2H20 and anhyd salt Mg(H2P04)2.4H20,  Indiat of stability of tetrahydrate is 580°. Dibydrate is in stable equil with soln from 10 to hydrate is in stable equil with soln from 10 to hydrate is in stable equil with soln from 10 to hydrate is in stable equil with soln from 10 to hydrate is in stable equil with soln from 10 to hydrate is in stable equil with soln from 10 to ald 130° found 3 invariant points with Between 0 and 130° found 3 invariant points with 3 solid phases. Constructed polytherms on basis of data found.  ### Discreption of the constructed polytherms on basis of data found.	Sun Haritage			
R/Chemingt, A. hem Ans Insection of the English of	- Magnesium Compounds  the Triple System MgO-P2-H20," S. 3elopol'skiy, M. N. Shulgina, Physicides) gicides)  m. vol XXIV, No 4, pp 404-412  rms at 0, 10, 50, 58, and 130° of	by interpolation and magnesium diphosphate solns as trihydrate. ium monophosphate is r drates: Mg(H2PO\mu)2.4H ium Compounds	Upper Di- ) to ap range s with basis	162744
SHOUT, S. Ya.	USSR/Chem"Polytherr Shpuit, A cochem An and Insec "Zhur Pri	syst expertrapolari crystalli same tem sented by	MC (H2POu limit of hydrate 1300. A Between 3 solid of dats	ser .2 , Tiuque







SHPUNT, S. VA.

AID - P-91

Subject

3 USSR/Chemistry

Card

: 1/1

Authors

: Belopoliskiy, A. P., Shpunt, S. Ya., and Shuligina, M. N.

Title

: Isotherms of the quaternary system MgO-CaO-P2O5-H2O at 50, 25, 58,

10 and 130°

Periodical

: Zhur. Prikl. Khim. 27, no. 4, 391-401, 1954

Abstract

: The isotherms at 50 and 250 were investigated experimentally; those at 58, 10, and 130° were obtained by inter- or extrapolation. Calcium phosphates affect the solubility of magnesium phosphates in phosphoric acid solutions only slightly. Magnesium phosphates appreciably affect the salting out of calcium phosphates. Three references (U.S.S.R.): 1950-1953. Nine tables; 4 graphs.

Laboratory for Physicochemical Analysis of the Scientific Research Institution :

Institute for Fertilizers, Insecticides and Fungicides

Submitted

: October 3, 1952

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

Shpurt

AID P - 914

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 5/22

Authors

: 'Belopol'skiy, A. P., Shpunt, S. Ya. and Shul'gina, M. N.

Title

: Application of diagrams of the quaternary system CaO-MgO-P<sub>2</sub>O<sub>5</sub>-H<sub>2</sub>O in the manufacture of phosphoric fertilizers from Kara-Tau phosphorites

Periodical

: Zhur. prikl. khim., 27, no. 5, 493-500, 1954

Abstract

According to isotherms of the system CaO-MgO- $P_2O_5$ - $H_2O_5$  monocalcium phosphate is the only salt which crystallizes at 25° and 50°C from the liquid phase of superphosphate on cooling. All the magnesium salts remain in solution. Three tables, 3 diagrams, 5 references (Russian: 1940-54).

Institution:

Scientific Research Institute of Fertilizers and

Insectifuges. Laboratory of Physicochemical Analysis.

Submitted

: N 5, 1952

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

# SHPUNT, S. YA.

USSE/Chemistry - Coment

Card 1/1

Pub. 22 - 36/51

Authors

; Simanovskaya, R. E., and Shpunt, S. Ya.

Title

Effect of calcium phosphates on the production of Portland cement

Periodical : Dok. AN SSSR 101/5, 917-920, Apr 11, 1955

Abstract

An analysis is presented of results obtained during the study of the phosphate effect on the process of decomposition of the basic component of a Portland cement batch and on the formation of clinker minerals and cement quality. The physico-chemical properties of various cement systems subjected to the effects of phosphates are discussed. Five USSR references (1947-1953). Tables; graphs.

Institution: The Ya. V. Samoylov Sc. Inst. of Fertilizers and Insectofungicides

Presented by: Academician S. I. Vol'fkovich, November 17, 1954

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

5°119111.3°161.

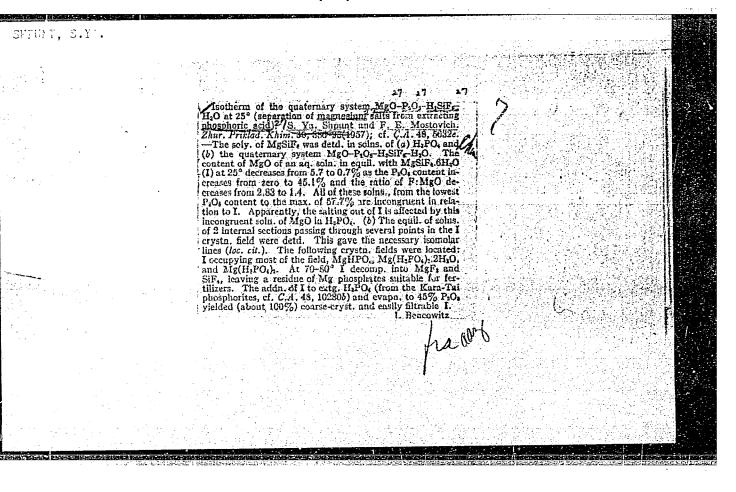
SHPUNT, S. Ya.; VOSKRESENSKIY, S.K.; ARKHIPOVA, L.N.; MOSTOVICH, F.Yo.

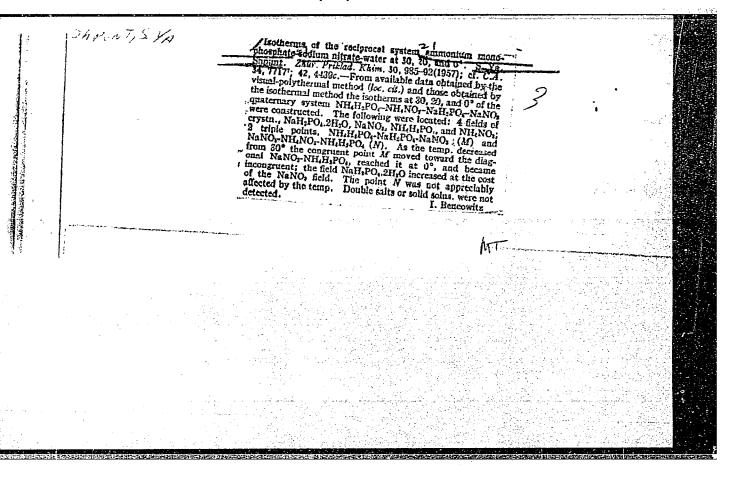
Using phosphoric acid extracted from magnesium salts in the production of double superphosphate. Khim. nauka i prom. 2 no.2:270-271
'57. (MIRA 10:6)

 Nauchno-issledovatel'skiy institut udobreniy i insektorungitsidov. (Phosphoric acid) (Phosphates) (Magnesium salts)

#### "APPROVED FOR RELEASE: 08/09/2001 CIA-RD

CIA-RDP86-00513R001549930009-1

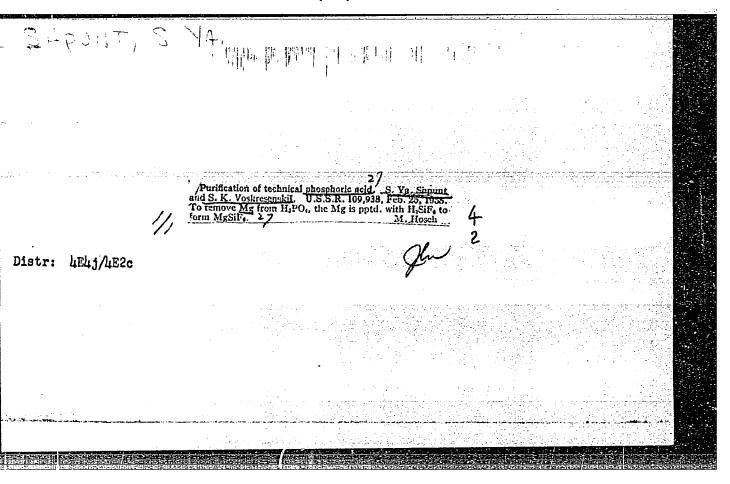




SHPUNT, S.Ya.

Isotherms of the mutual aqueous system ammonium monophosphate-sodium nitrate - water at low temperatures, i. e. -10, -15, and -20°. Zhur.prikl.khim. 30 no.8:1148-1159 Ag '57. (MIRA 11:1)

l. Nauchno-issledovatel'skiy institut udobreniy i insktofungisidov.
(Curves isothermic) (Ammonium phosphates)
(Sodium nitrate)



SIMANOVSKAYA, R.E.; rukovoditel' raboty; SHPUNT, S.Ya.; VODZINSKAYA, Z.V.;
KOKINA, Z.I.; PSTUKHOVA, M.G.; NAYDENOVA, V.A.; VAS'YANOV, V.P.;
VASIL'YEV, N.F., master; ORLOV, N.N., starshiy apparatchik;
NAUMOV, P.M., starshiy apparatchik; TRUPIN, M.P., starshiy apparatchik;
VOLKOVA, V.M., starshiy apparatchik; ZORINA, Ye.A.; KIROVA, V.A.;
LUTOVA, Z.I., ZENKINA, Z.P., laborant; SEMOKHINA, L.A., laborant;
NIKITINA, N.A.

Phosphogypsum and its use in the manufacture of sulfuric acid and portland cement; small-scale operation at the pilot plant of the Scientific Research Institute of Fertilizers and Insectifuges.

[Trudy] NIUIF no.160:59-76 '58. (MIRA 12:8)

1. Sotrudniki Nauchnogo instituta po udobreniyam i insektofungisidam (for Simanovskaya, Shpunt, Vodzinskaya, Kokina, Pastukhova, Naydenova). 2. Zamestitel' nachal'nika 3-go tsekha Opytnogo zavoda Nauchnogo instituta po udobreniyam i insektofungisidam (for Vas'yanov). 3.3-y tsekh Opytnogo zavoda Nauchnogo instituta po udobreniyam i insektofungisidam-(for Vasil'yev, Orlov, Naumov, Trupin, Volkova, Zorina, Kirova, Lutova, Zenkina, Samokhina). 4. TSentral'naya analiticheskaya laboratoriya Opytnogo zavoda Nauchnogo instituta po udobreniyam i insektofungisidam (for Nikitina).

(Gypsum) (Portland cement) (Sulfuric acid)

SHPUNT, S.Ya.; GUSEVA, Z.I.

Investigating the fusion of mixtures in connection with the manufacture of portland cement and sulfurous anhydride from phosphorypsum (phosphoric anhydride). [Trudy] MUIF no.160: 77-116 '58. (MIRA 12:8)

(Portland cement) (Sulfur dioxide) (Gypsum)

HERNATSKIY, Yu.P., rukovoditel' raboty; ITKINA, D.Ya.; URUSOV, V.V.;

MAKAROVA, Ye.I.; SHPUNT, S.Ya.; NAYDENOVA, V.A.; PASTUKHOVA, M.G.

KOKINA, Z.V.; VODZINSKAYA, Z.V.; LAPSHINA, L.V.; VAS'YANOV, V.P.;

KUSHNIR, G.F.; NIKITINA, N.A.

Decomposition of phosphogypsum into lime and sulfur dioxide in a sevenmeter rotary kiln. [Trudy] NIUIF no.160:152-180 '58. (MIRA 12:8)

1. Sotrudniki Nauchnogo instituta po udobreniyam i insektofungisidam (for Bernatskiy, Itkina, Urusov, Makarova, Shpunt, Naydenova, Pastukhova, Kokina, Vodzinskaya). 2. Sotrudniki Opytnogo zavoda Nauchnogo instituta po udobreniyam i insektofungisidam (for Lapshina, Vas'yanov, Kushnir, Nikitina).

(Gypsum) (Lime) (Sulfur dioxide)

sov/78-4-1-33/48 Rusadze, A. V., Shpunt, S. Ya.  $_{5}(2), 5(4)$ Physico-Chemical Analysis of Phosphates Treated With Nitric AUTHORS: Acid; the Quaternary System CaO-N<sub>2</sub>O<sub>5</sub>-H<sub>2</sub>SiF<sub>6</sub>-H<sub>2</sub>O at 60° TITLE: (Fiziko-khimicheskiy analiz v oblasti azotnokislotnoy pererabotki fosfatov; chetvernaya sistema CaO-N2O5-H2SiF6-H2O pri 60°) Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, PERIODICAL: pp 182-193 (USSR) The present paper describes detailed physico-chemical investigations and solubility examinations of fluorine compounds after ABSTRACT: treatment of phosphate (apatite) with nitric acid. The quaternary system CaO-N $_2$ O $_5$ -H $_2$ SiF $_6$ -H $_2$ O and the ternary systems  $CaSiF_6^{-N}2^05^{-H}2^0$  and  $Ca(NO_3)2^{-N}2^05^{-H}2^0$  were studied by investigating the isotherms at 600. In the CaSiF6-N205-H20 system the following phases appear: CaSiF<sub>6</sub>·4H<sub>2</sub>O + CaF<sub>2</sub> and CaSiF<sub>6</sub>·2H<sub>2</sub>O. Calcium silicofluoride is a stable phase only in the presence Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

SOV/78-4-1-33/48

Physico-Chemical Analysis of Phosphates Treated With Nitric Acid; the Quaternary System CaO-N $_2$ O $_5$ -H $_2$ SiF $_5$ -H $_2$ O at 60°

of a free acid. In the ternary system  ${\rm Ca(NO_3)_2-N_2O_5-H_2O}$  the sclubility of calcium nitrate decreases with an increase of nitric acid concentration. The isotherm of the quaternary system  ${\rm CaO-N_2O_5-H_2SiF_6-H_2O}$  is characterized by the following crystallization zones:  ${\rm Ca(NO_3)_2}$ ,  ${\rm CaSiF_6.4H_2O}$  +  ${\rm (CaF_2)}$ ,  ${\rm CaSiF_6.2H_2O}$  +  ${\rm (CaF_2)}$ . The presence of  ${\rm CaF_2}$  and  ${\rm CaSiF_6.2H_2O}$  in the solid phase was confirmed by chemical and radiographic analyses. In the presence of  ${\rm Ca(NO_3)_2}$  decomposition of the icn  ${\rm SiF_6}$  takes place in nitric acid solutions:

 $siF_6^{2-} \rightleftharpoons siF_4 + 2F^-$ 

With an increase of  ${\rm Ca(NO_3)_2}$  concentration the amount of calcium fluoride precipitated increases. Calcium silicofluoride does not influence the solubility of calcium nitrate considerably. On the other hand, the solubility of calcium silicofluoride is considerably reduced by calcium nitrate. Calcium nitrate and nitric acid cause the salting out of calcium

Card 2/3

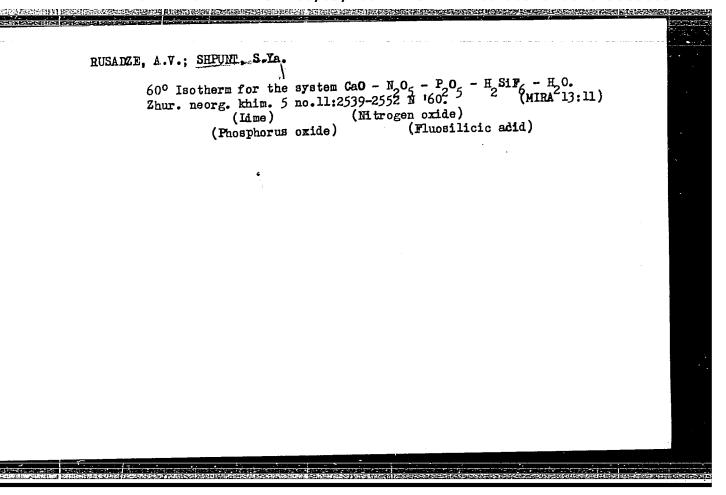
SOV/78-4-1-33/48 Physico-Chemical Analysis of Phosphates Treated With Nitric Acid; the Quaternary System CaO-N  $_2^{\rm O}_5$  -H  $_2^{\rm SiF}_6$  -H  $_2^{\rm O}$  at 60°

silicofluoride. There are 5 figures, 4 tables, and 11 references, 6 of which are Soviet.

May 4, 1958 SUBMITTED:

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"



SHPUNT, S.Ya.; VOSKRESENSKIY, S.K.; ARKHIPOVA, L.N.; LENEVA, Z.I.;
Prinimali uchastiye: LI, K.P.; ROGOVA, G.I.; SHADRINA, S.A.;
OSIPOVA, T.N.

Decomposition of apatite in fluosilicate acid and the preparation of monocalcium phosphate. Khim. prom. no.10:50-54.0 '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i insektofungitsidov. (Apatite) (Fluosilicic acid) (Calcium phosphate)

ARICHIPOVA, L.N.; SHPUNT, S.YO.

Solubility of calcium fluosilicato in aqueous solutions of fluosilicio acid. Trudy NIUIF no.200:55-69 \*65.

llydrolymis of calcium fluosilicato in water at 250. Thid. 169-38

Some properties of fluosilicic acid. Ibid.:88-103 (MIRA 18:11)

Empant, Sana, ARKHOPOVA, U.N., LEMEVA, Z.I., GUSEVA, Z.I.,

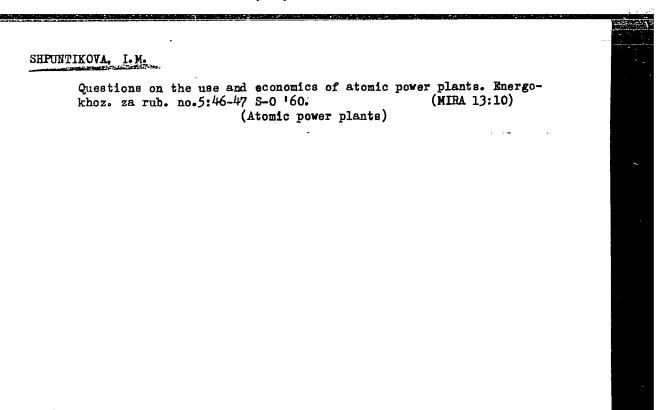
Demomprasizion of epathics by hydrofluoris acid with the recovery of phoaghoris and. Knim. prom. 41 no.199787-758 0 165.

(MIRA 18-11)

SHPUNT, S.Ya.; ARKHIPOVA, L.N.; LENEVA, Z.L.; GUSEVA, Z.I.

Obtaining phosphoric acid by the decomposition of magniumcontaining phosphorites with fluosilicic acid. Khim. prom.
42 no.9:674-678 S '65.

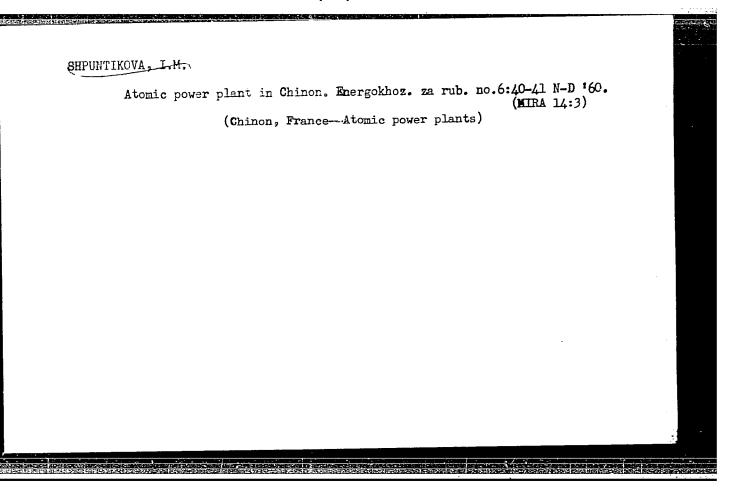
(MIRA 18:9)



LEBEDEV, B.P., inzh.; SHPUNTIKOVA, I.M.

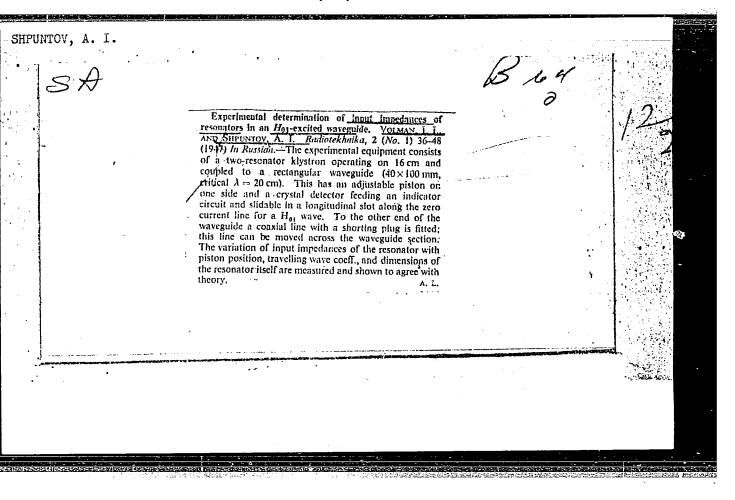
Glued transformer cores without tie bolts. Energokhos. ga rub.
no.6:29-33 N-D 160.
(Switzerland-Electric transformers)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"



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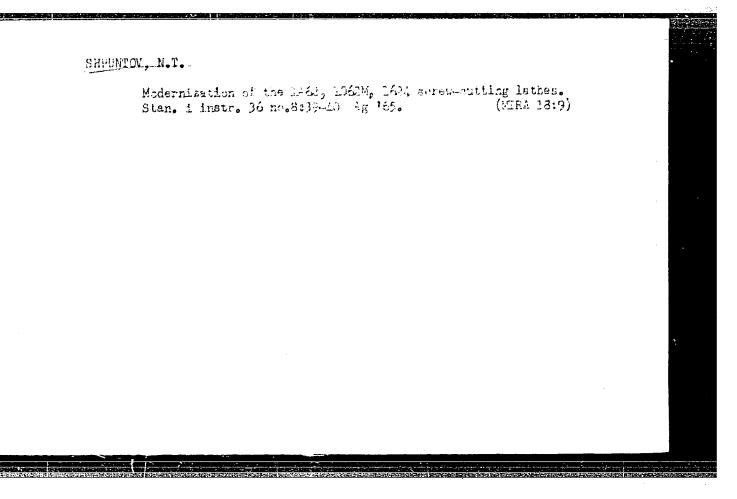
Antenna Shields [Radomes] (Obtekali antenn), Izd-vo Sovetskoye Radio, 263 pp,1476

Book W-22517, 29 Apr 52

LIBIN, V.A. [translator]; SHPUNTOV, A.I., kand. tekhm. nauk, red.; YAKI-MENKO, L.P., red.; IOVLEVA, I.A., tekhm. red.

[Antennas with elliptical polarization; theory and practice. Collection of translated articles] Antenny ellipticheskoi poliarizatsii; teoriia i praktika. Sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1961. 355 p. (MIRA 14:6)

(Antennas (Electronics))



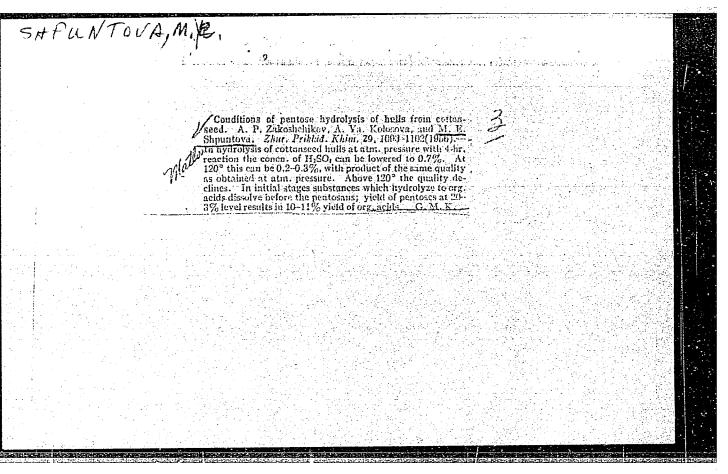
SHPUNTOVA, M.Ye.; MAKSIMENKO, N.S.; GRANKINA, L.G.

Perfecting pentose and hexose hydrolysis of cottonseed hulls. Gidroliz. i lesokhim. prom. 9 no.4:7-9 '56. (MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Shpuntova).

Ferganskiy gidroliznyy zavod (for Maksimenko i Grankina).

(Cottonseed) (Hydrolysis)



# Conference on high molecular compounds. Gidroliz. i lesokhim. prom. 10 no.3:31 '57. (MLRA 10:5) 1. Nauchnyy sotrudnik Vsesoyuznogo nauchno-issledovatel skogo instituta gidroliznoy i sul'fitno-spirtovoy promyshlennosti. (High molecular compounds)

ZAKOSHCHIKOV, A.P.; KOLOSOVA, A.Ya.; SHPUNTOVA, M.Ye.

Pentose hydrolysis of cottonseed hulls. Zhur.prikl.khim.
29 no.7:1093-1102 Jl '57. (MIRA 10:10)

(Hydrolysis) (Cottonseed)

SHPUNTOYA, M.Ye.; SHNAYDER, Ye.Ye.; CHEPIGO, S.V.

Combinated hydrolysis of vegetable matter by concentrated sulfuric acid. Uzb. khim. zhur. no.381-92 '58. (MIRA 11:9)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sul'fitnospirtovoy i gidroliznoy promyshlennosti.

(Lignin) (Hydrolysis) (Sulfuric acid)

ODINTSOV, P.N.; KALNIN'SH, A.I. [Kalnins, A.]; KAL'NINA, V.K.; CHEPIGO, S.V.; SHNAYDER, Ye.Ye.; SHPUNTOVA, M.Ye.

Hydrolysis of plant materials by concentrated sulfuric acid. Gidroliz. i lesokhim.prom. 14 no.3:1-4 61. (MIRA 14:4)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny Akademii nauk Latviyskoy SSR (for Odintsov, Kalnin'sh, Kal'nina). 2. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno spirtovoy promyshlennosti (for Chepigo, Shnayder and Shpuntova). (Hydrolysis) (Wood---Chemistry)

RELEN'KIY, S.I.; KLIMOVA, Z.K.; SHPUNTOVA, M.Ye.; CHERFRUKHIN, T.K.

Rapid continuous inversion of pentose hydrolyzates. Gidroliz.
i lesokhim. prom. 14 no.7:25-27 '61. (MIRA 14:11)

1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Belen'kiy, Klimova, Shpuntova).
2. Ferganskiy gidroliznyy zavod (for Cheremukhin).

(Pentoses)
(Hydrolysis)

SHPUNTOVA, M.Ye.; SHNAYDER, Ye.Ye.; CHEPUGO, S.V.; LAZAREVA, L.V.;
MASLOVA, L.G.; ROSHCHINA, V.I.; Prinimali uchastiye: PAVIENKO, V.M.,
starshiy laborant; GERASINOVA, L.I., starshiy laborant

Pentose hydrolysis of cottonseed hulls and corncobs with hexose
hydrolyzates. Sbor.trud. NIIGS 11:7-15 '63. (MIRA 16:12)

THE PROPERTY OF THE PROPERTY O

NAYDENOV, A.K.; SHNAYDER, Ye, Ye, SHPUNTOVA, M.Ye.

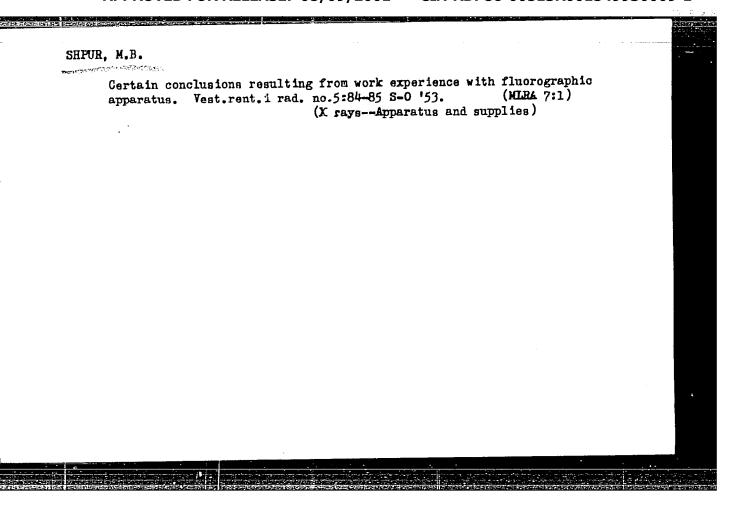
Dryer for cellolignin obtained from corncobs. Gidroliz. i lesokhim. prom. 16 no.6:7-10 '63. (MIRA 16:10)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'-skogo instituta galurgii.

SHPUNTOVA, M.Ye.

In the Scientific Council for the Study of the Utilization of
Pentosan-Containing Raw Materials. Cidroliz. i lesokhim. prom.
Pentosan-Containing Raw Materials. Cidroliz. i lesokhim. prom.
(MIRA 17:12)
17 no.6:29-31 '64.

1. VNIIsintezbelok.



		SSR Cultivated Flancs - Industrial, Oleiferous, Sugar. M		
tur, a tu	;	1777 M. 1. , Fe. 14, 1958, Wr. 63502		
47.1 A	:	superik, f. D.	İ	
47.13 (A) 1797 - 47 (A)	:	Problems of Agricultural Technique for Winter Raps.		
		Arabkiye itagi raboly (Kirovogradsh. gos. skh. opyth. st.) an 1931-1955 gs. Vyp. 1. Kiyev, 1957, 79-87 be the back of brisls carried out during 1937-1940 at famenate-fodel'sk bese in Ahmel'nitskapa oblast', it is recommended to sow wisher rape on bare or accupied fallow with wide-row method with 45 cm space between the rows, to apply potach and thosphorus fertilizers, suturn dressing the fall hilling Is. 4. Devdel'berg		:
:   "eri: 1/1		111	•	

SHPURIS, F.L.

USSR/Cultivated Flowes - General Problems.

Abs Jaur : Ref Zhar - Biol., Fo 10, 1958, 44007

Author : Federovskiy, M.T., Separik, F.L.

Inst : Kirovograd State Agricultural Testing Station.

Title : Characteristics of the Haemal Conditions of the Reflect Covered by the Activisie of the Station.

Order Pub : Kraddyl itogi rabob/ (Kirovogradsk, gos. s.-kh. opyth. st.) Zo 1931-1955 gg. vyp. 1, Kiyev, 1957, 7-16

Abstract : No a stract.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates.

Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5289

Author: Tikhonov, V. A., Kintsel', L. A., Suvorova, O. F., Shpynova, L. G.

Institution: L'vov Polytechnic Institute

Title: Change in Composition of Liquid Phase in the Cement-Water System

Original

Publication: Dokl. L'vovsk. politekhn. in-ta, 1955, 1, No 2, 88-92

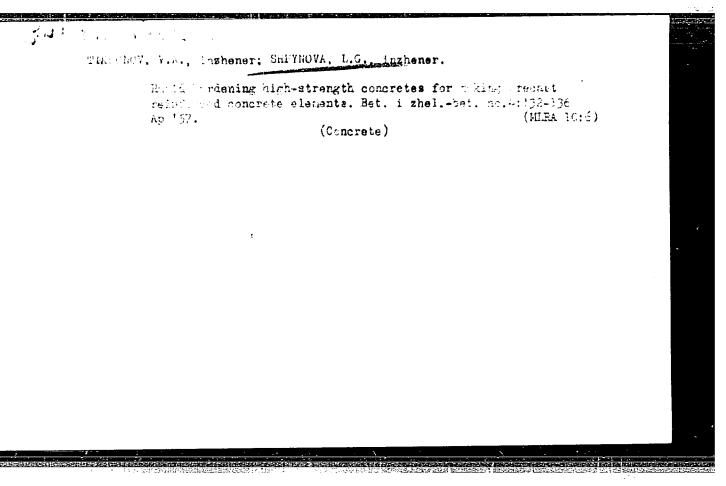
Abstract: Sulfite-alcohol vinasse lowers the concentration of lime in the liquid phase of the cement-water system, which prevents reduction

in strength on mixing of such compounded binders as building gypsum --Portland cement, aphydride cement -- Portland cement, flooring plastergypsum -- Portland cement, alumina cement -- Portland cement, alumina cement -- lime. Thermographic analysis, determinations of chemically combined water, volumetric weight and free lime, have

shown a change in composition of the hydration products of Portland

cement, due to action of sulfite-alcohol vinasse and calcium chloride.

Card 1/1



s/081/61/000/023/043/061 B138/B101

15.3200

AUTHORS:

Tikhonov, V. A., Shpynova, L. G. Strength gain accelerators instead of hydrothermal treatment

TITLE:

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1961, 355, abstract 23K381 (Dokl. Livovsk. politekhn. in-ta., v. 2, no. 2, 1958,

TEXT: The article presents the results of the investigation of additions of CaCl and (CB(SSB) to concretes setting in various different circumstances (stored in water, in moist filings, steam blow, and steamed at pressures of 2 and 7 gauge at.) 2% CaCl<sub>2</sub> and 0.25% SSB per weight of cement were added respectively. Combined additions of 2% CaCl and 0.25% SSB were also tested. The tests were carried out with sand mortars 1:3

and 1:1:3 concretes. White cement and Portland cement of various screening grades from the Nikolayev Plant were used as the binding agents. The combined addition of CaCl<sub>2</sub> and SSB was found to promote a Card 1/2

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549930009-1"

SHPYNOVA, L. G. Cand Tech Sci -- (diss) "Effect of conditions of solidification and ## addition of substances lowering surface tension upon changes in the structure of cement stones." Len, 1959. 18 pp with illustrations (Min of Higher Education USSR. Len Order of Labor Red Banner Technological Inst im Lensovet), 120 copies (KL, 41-59, 105)

-33-

30217 s/08:/61/000/019/054/085 B117/B110

15.3200

Tiknonov, V. A., Shpynova, L. G.

AUTHORS: Effect of warr-moist treatment on the change in phase com-TITLE:

position of Portland cement

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 315 - 316, abstract 19K311 (Doki. Mezhvuz. konferenteil po izuch.

avtoklavn. materialov i ikh primeneniyu v str-ve, L., 1959,

102 - 109)

TEXT: The authors studied changes in the composition of hydrosilicates and hydroaluminates of calcium under conditions of warm-moist setting by means of DTA methods, microscopic and electron-microscopic analyses. Primarily, C2SH2, lime, and some CSH are formed by hydration of C3S in a moist room. Steaming at atmospheric pressure accelerates the crystallization of hydrosilicates. a- and  $\beta$ -hydrates of  $C_2SH_2$ , lime, tobermorite, and afwillite are formed by steaming. Then the amount of  $\alpha$ -hydrate increases. After 7 hr steaming, C3S can be observed in aqueous suspension, Card 1/3

30217 \$/08:/61/000/0 9/054/085 B1:7/B:10

Effect of warm-moist treatment...

with the electron microscope, in the form of spherolites and needle crystals. In alcoholic suspension, it has the form of rhombic and rectangular plates. After prolonged steaming, the sensitivity of hydrosilicates to the suspension decreases. After 35 hr steaming, mainly rectangular plates are observed, while the number of rhombic plates decreases strongly.  $C_2SR_2$ -a-hydrate is mainly formed by hydration of  $C_2S$ under conditions of warm-moist treatment. Other hydrates are present in small quantities. The resulting hydrosilicates are less subject to hydrolysis in water than the hydratica products of C35. The hydration product of pure C3A is cubic C3AH, under any conditions of setting. In cement paste, solution, and consiste,  $C_{j}A$  yields hexagonal hydrosluminates and Al(OH)3 gel by hydration under conditions of warm-moist treatment. The composition of hydration products of pure CAF is not changed by warm-moist treatment. In paste, solution, and concrete, however, i.e., with elimination of the hydration heat, hexagonal hydroaluminates and a colloidal mass are formed instead of the cubic ferric hydroaluminate.

Card 2/3

3021**7** \$/081/61/000/019/054/085 21:7/2110

Effect of warm-moist treatment...

Spherolites are only observed when stirring C<sub>2</sub>A and C<sub>4</sub>AF preparations with water. In Portland cement setting at room temperature, no interaction between clinker minerals takes place during the first period. It only begins after prolonged setting and at elevated temperature. The only begins after prolonged setting and at elevated temperature and be increase in strength of cement stone due to hydrothermal treatment can be increase in strength of cement stone due to hydrothermal treatment can be explained by the change in phase composition of hydrosilicates and a explained by the change in phase composition of newly formed structures. [Abstracter's note: Complete translation.]

Card 3/3

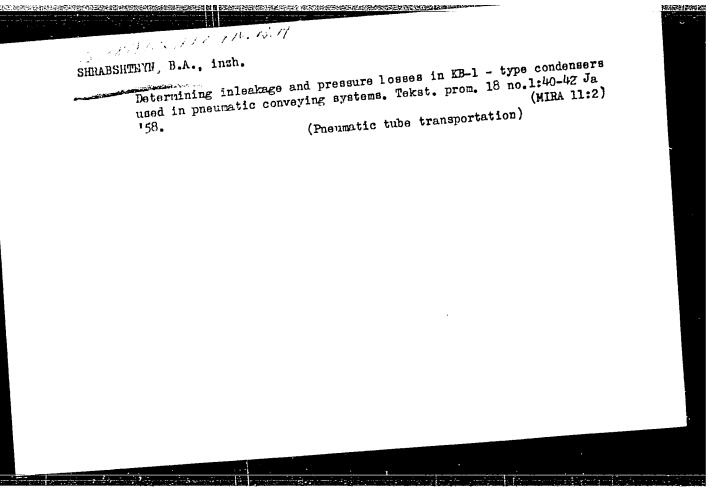
ANDRIYEVSKIY, A.I., doktor tekhn.nauk; TIKHONOV, V.A., dots.; SHPYNOVA, L.G.;

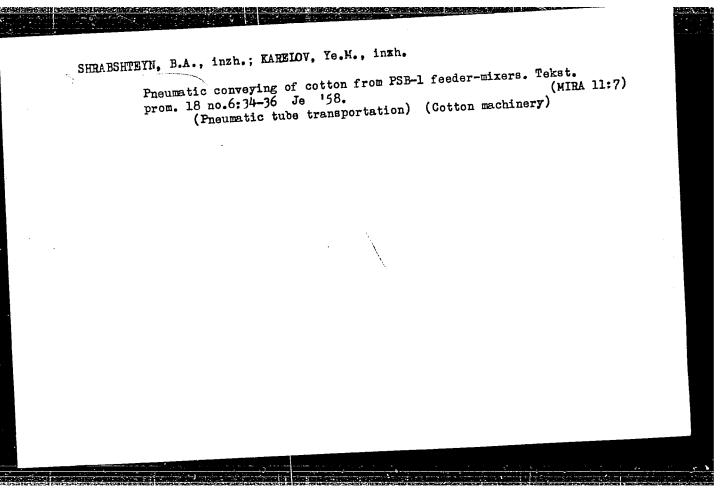
NABITOVICH, I.D.

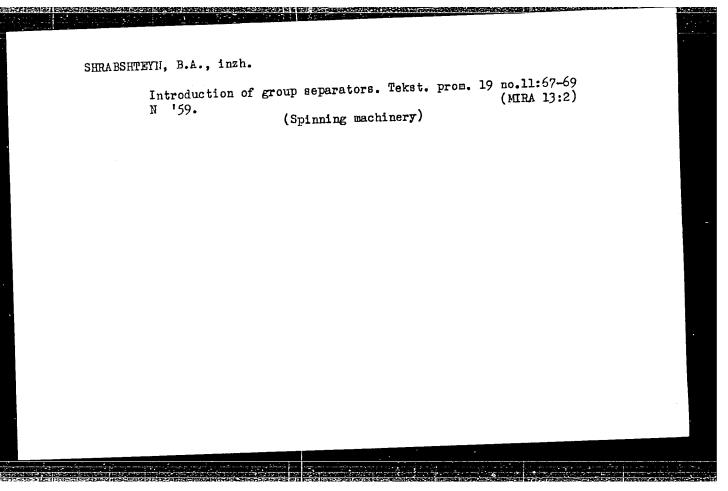
Electron microscopic testing of hydration hardening of unslaked
lime. Stroi.mat. 5 no.3:33-35 Mr '59. (MIRA 12:5)

(Lime-Testing)

EWP(e)/EWT(m)/EWP(w)/EPF(n)-2/EWG(m)/EWA(d)/EPR/T/EWP(t)/ Pg\_4/Ps-4/Pu-4 S/0081/64/000/017/M004/M005 EWP(k)/EWP(z)/EWP(b)/EWA(c) ACCESSION NR: AR5000708 B SOURCE: Ref. zh. Khimiya, Abs. 17M33 AUTHOR: Voronin, N. I.; Bresker, R. I.; Shrabman, TITLE: Phase transformations during siliconizing annealing and their effect on the properties of carborundum heaters CITED SOURCE: Sb. Silikaty i okisly v khimii vysokikh temperatur. M., 1963, TOPIC TAGS: carborundum, silicon carbide, heater manufacture, silicon carbide phase composition, siliconizing annealing, heater conductivity, heater mechanical property, carbon black, coking TRANSLATION: The authors note that during the manufacture of heaters from silicon carbide, the siliconizing annealing has a significant effect on their phase composition and physicomechanical and electrical properties. Siliconizing annealing is carried out in electric resistance ovens by two methods: 1) around a carbon pipe, and 2) by passing a stream directly across the heater. Annealing of heaters around a pipe was tested on compositions containing 70% finely dispersed SiC, 12memoraccuring process and the improve-Card 1/2 ment of their useful properties. R. Bresker ENCL: 00 SUB CODE: MT APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1







### "APPROVED FOR RELEASE: 08/09/2001 CIA-R

CIA-RDP86-00513R001549930009-1

SERABSHTEYN, G.

Machine-Tractor Stations\*Accounting

Introducing the elements of cost accounting in machine-tractor station tractor brigade operations. MTS 12 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1957053. Unclassified.

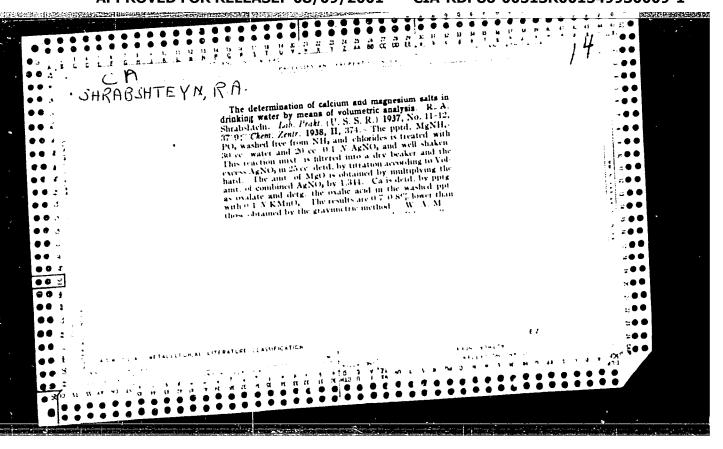
# SHEARSHT MYN I dots: CHERKESOV-TSYBIZOV, A., starshiy prepodavatel; MILYUKOV, M.; APPROVED FOR RELEASE: 0.08/09/2001h -- CTATED PSG-00313R001549930009-

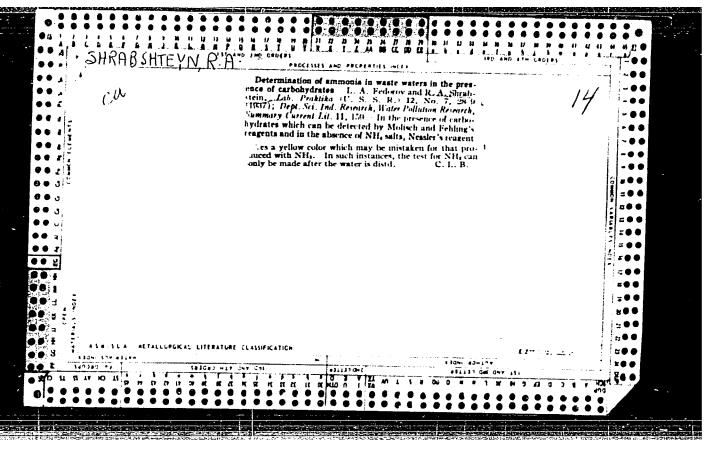
"Economics of transportation by sea" by S.F. Loriakin, I.L. Bernshtein, IU.F. Ellinskii. Reviewed by I. Shrabshtein and others. Mor.flot 20 no.10:46-48 0 '60. (MIRA 13:10)

1. Odesskiy institut inzhenerov morskogo flota (for Shrabshteyn, Cherkesov-TSybizov, Milyukov). 2. Nachal'nik Planovogo otdela Baltiyskogo parokhodstva (for Borisov). 3. Nachal'nik Planovoekonomicheskogo otdela Kanonerskogo zavoda (for Lapina).

(Shipping)

(Koriakin, S.F.) (Bernshtein, I.L.) (Ellinskii, IU.F.)





SHRABSHTEYN, R.A.; OSTROUKHOVA, L.A. Chemical composition and caloric value of broths made with bones. Vop.pit. 15 no.4:51 Jl-Ag 156.

1. Iz Vinnitskoy oblastnoy sanitarno-epidemiologicheskoy stantsii. (MEAT EXTRACT)

(MLPA 9:9)

L 45814-66 EWT (m)
ACC NR: AR6023259

SOURCE CODE: UR/0058/66/000/003/A053/A053

ATTITION OF THE

AUTHOR: Chikovani, G. Ye.; Shrabshteyn, S. A.

to 3

TITLE: Semi-automatic instrument for the processing of photographs of tracks in a cloud chamber i

SOURCE: Ref zh. Fizika, Abs. 3A457

REF. SOURCE: Sb. Fiz. chastits vysok. energiy. No. 1. Tbilisi, Metsniyereba, 1965, 97-103

TOPIC TAGS: cloud chamber, particle track, track analysis, computer coding/ST-2M perforator

ABSTRACT: A semi-automatic projector is described for the measurement of the coordinates of points of the track on cloud-chamber photographs. The results of the measurements are punched on tape in the code called for by the computer. Service markers (the number of the frame, the origin of the coordinates of the track etc.) are punched manually on the keyboard of the ST-2M apparatus. A block diagram of the apparatus is presented, the control circuits, the reversing cell, the delay block, and the pulse-shaping block, and the printing control circuit are presented. [Translation of abstract]

SUB CODE: 20, 09

Cord 1/1 hs

GARIBASHVILI, D. L.; GRIGALASHVILI, T.S.; KAKHIDZE, G.P.; CHIKOVANI, G.Ye.; SHRABSHTEYN, S.A.

Multichannel pulse analyzer for an ionization calorimeter on capacitive memory cells and a system of information output. Fiz. chast. vys. energ. no.1:105-109 165.

(MIR4 18:12)

15164-66 ACC NR. AP5027018 SOURCE CODE: UR/0120/65/000/005/0106/0107 AUTHOR: Chikovani, G. Ye.; Shrabshteyn, S. A. ORG: Institute of Physics, AN GruzSSR (Institut fiziki AN GruzSSR) TITLE: Using an ST-2M telegraph receiver for extracting information from counters SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 106-107 TOPIC TAGS: counter, pulse counter, scaler, printer ABSTRACT: The use of an ST-2M teletype apparatus with an automatic STAP attachment is described for extracting information (experimental data) from a semiautomatic processor of cloud-chamber diagrams. The information is delivered either in printed form (if the information in the counters is kept in a binary-decimal code) or as a 5-track perforation of a 17-mm punch tape. Each punch tape "line" (one print character) takes 7 pulses: one starting, 5 code, and one stop pulse. A ShI-27 step-by-step switch whose spindle is mechanically coupled to the teletype is used for control; among other advantages, this arrangement obviates the necessity of synchronizing the scanning frequency with the teletype rpm's. A control circuit of UDC: 681.142.62

AUTHOR: Chikovani, G. Ye.; Shrabshteyn, S. A.  ORG: Institute of Physics, AN GruzSSR (Institut fiziki AN GruzSSR)  TITLE: Punch-tape to standard punch-card information transcription  SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 107-109  TOPIC TAGS: information processing, punch card, punch tape  ABSTRACT: A circuit is described which permits transcribing information (experimental data) from a 5-track 17-mm punch tape to a standard 80-column punch card by means of an M-20 input puncher and a STAP transmitter attachment to an ST-2M telegraph apparatus. The circuit controls tape transport and scanning by means of a 4-bank step-by-step switch. A similar switch controls intermediate storage thyratrons. "In conclusion, the authors wish to thank A. Kongolidi and V. Kutsiya for their help in wiring the circuits." Orig. art. has: 3 figures.  SUB CODE: 09 / SUBM DATE: 02Sep64 / ORIG REF: 002  FW  Cord 1/1  UDC: 681.142.62	L 15163-66 EWT(d)/EWP(1) IJP(c) BB/GG/JXT(BF)	
ORG: Institute of Physics, AN GruzSSR (Institut fiziki AN GruzSSR)  TITLE: Punch-tape to standard punch-card information transcription	ACC NR. AP5027019 SOURCE CODE: UR/0120/65/000/005/0107/0109	
TITLE: Punch-tape to standard punch-card information transcription  SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 107-109  TOPIC TAGS: information processing, punch card, punch tape  ABSTRACT: A circuit is described which permits transcribing information (experimental data) from a 5-track 17-mm punch tape to a standard 80-column punch card by means of an M-20 input puncher and a STAP transmitter attachment to an ST-2M telegraph apparatus. The circuit controls tape transport and scanning by means of a 4-bank step-by-step switch. A similar switch controls intermediate storage thyratrons. "In conclusion, the authors wish to thank A. Kongolidi and V. Kutsiya for their help in wiring the circuits." Orig. art. has: 3 figures.  SUB CODE: 09 / SUBM DATE: 02Sep64 / ORIG REF: 002  FW  Cord 1/1 UDC: 681.142.62	The state of the s	
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Card 1/1 UDC: 681.142.62	SUB CODE: 09 / SUBM DATE: 02Sep64 / ORIG REF: 002	
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KORYAKIN, Sergey Fedorovich, kand. ekon. nauk, dots.; BENG SHTER., Iosif L'vovich, kand. ekon. nauk, dots.; Prinimal uchastiye: ELLENSKIY, Yu.F., st. prep.; SHRABSHTKYN Ye.A., dots., retsenzent; CHERKASCV-TSIBIZOV, A.A., et. prepod., retsenzent; MILYUKGV, M.A., st. prepod., retsenzent; NOZHAROV, N.D., kand. ekon. nauk, retsenzent; MAKAL'SKIY, I.I., kand. ekon. nauk, retsenzent; K.EMER, B.A., inzh., retsenzent; FETRUCHIK, V.A., kand. ekon. nauk, red.; GUBERMAN R.L., kand. ekon. nauk, red.; RODIN, Ye.D., kand. ekon. nauk, red.; DUBCHAK, V.Kh., inzh., red.; HARTIROSOV, A.Ye., inzh., red.; PALYUSHKIN, V.A., inzh., red.; BELOV, h.I., doktor geogr. nauk, red.; SINITSYN, M.T., inzh., red.; HOLESNIKOV, V.G., kand. tekhn. nauk, red.; ZAMAKHOVSKIYA, A.G., kand. ekon. nauk, red.; KUZ'MIN, T.P., inzh., red.; NEMCHIKOV, V.I., kand. tekhn. nauk. red.; GEKHTBARG, Ye.A., inzh., red.; FILIPPOV, K.D., red.; KHUGLOVA, Yelle, red.

[Economics of the merchant marine] Ekonomika morskogo transporta. Izd.2., perer. i dop. Moskva, Transport, 1964.
527 p. (MIRA 18:1)

# KHAN, G.A.; SHRADER, B.A.

Studying the adsorption of flotation reagents by means of electrokinetic measurements. Izv.vys. ucheb. zav.; tsvet. met. no.1:41-47 '58. (MIRA 11:6)

1. Moskovskiy institut tsvetnykh metallov i zolota. Kafedra obogashcheniya poleznykh iskopayemykh.

(Flotation) (Adsorption--Measurement)

PLAKSIN, I.N.; SHRADER, E.A.

Quantitative determination of dixanthogen by the polarographic method. Izv.vys.ucheb.zav.; tsvet.met. 5 no.1:41-43 '62.

1. Institut gornogo dela AN SSSR.

(Flotation—Equipment and supplies) (Polarography)

PLAKSIN, I.N.; SHRADER, E.A.

Interaction between microlite and certain reagents in flotation.

Dokl. AN SSSR 162 no.1:147-149 My '65. (MIRA 18:5)

1. Institut gornogo dela iπ. A.A.Skochinskogo. 2. Chlen-korrespondent AN SSSR (for Plaksin).

PLAKSIN, I.M.; SOLDYSHEIN, V.I.; SHR/DER, S.A.

Reaction of struverite and accompanying minerals with cleic acid. Dokl. AN SSSR 162 no.4:879-382 Je '65. (MIRA 18:5)

1. Institut gornogo dela im. A.A.Skochinskogo. 2. Chlen-korrespondent AN SSSR.

Disportation: "On the Problem of Constructional Forms for the Frances of Four-Arde For Cars."

1/2/50

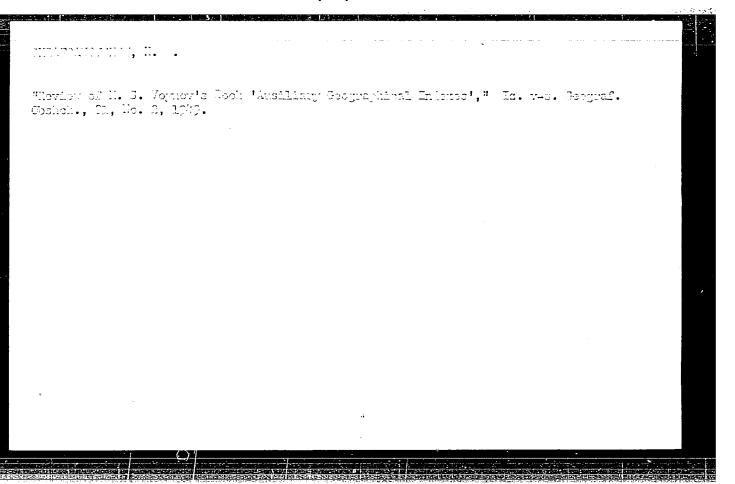
Hoscow Order of the Labor Red Banner Electromechanical Inst of Railroad Engineers imeni F. E. Dzerdzhinskiz

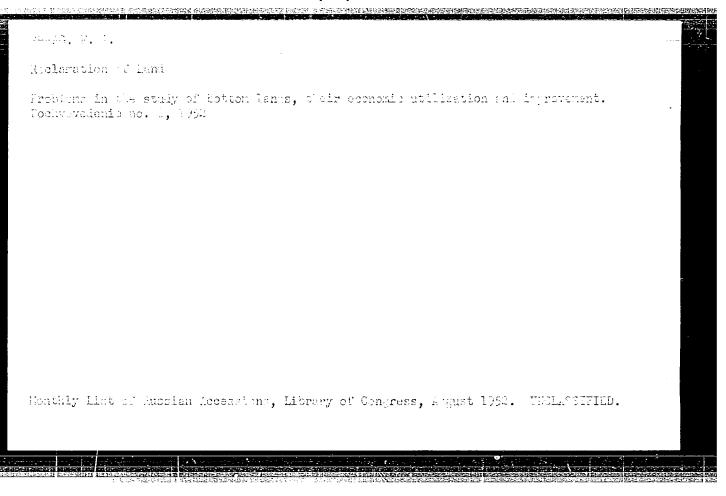
SO Vecheryaya Moskva
Sum 71

ЗНКАДТТК, G.F. 25777

Vyshe Kachestvo Lechebnoy Ponoshi. Zdravookhraneeniye Kazakhstana, 1943, No. 4, S. 1-4

SO: LETOPIS NO. 30, 1948





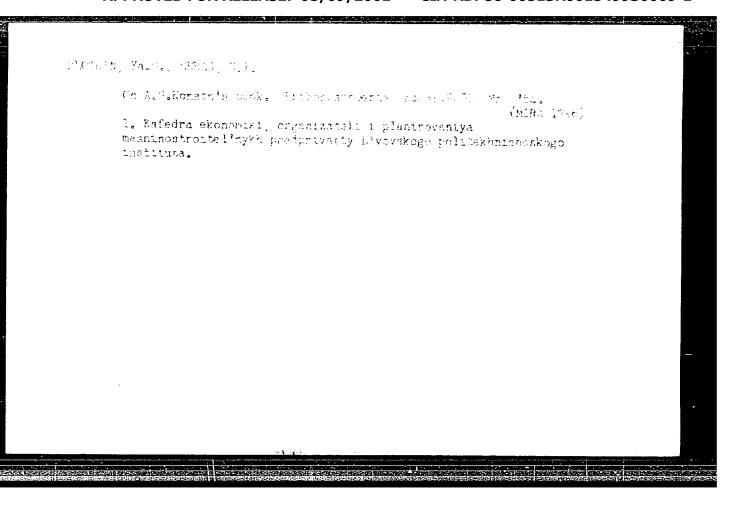
KUTS, Anatoliy Stepanovich; SHRAG, Nikolay Il'ich; VITVITSKIY, M.

[Vitvits'kyi, M.], red.; GRIFF, M., tekhn. red.

[Lwov economic administration region] L'vivs'kyi ekonomichnyi administratyvnyi raion. L'viv, Knyzhnovo-zhurlal'ne vyd-vo, 1958.

117 p. (MIRA 17:7)

(Lwov Hoonomic Region)



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1.	SHRAC	1,	Λ.	Ι.
2.	USSR	(6	500	)

- 4. Irrigation
- 7. Fall saturation irrigation in the central chernozem provinces. Pochvovedenie No. 10, 1952.

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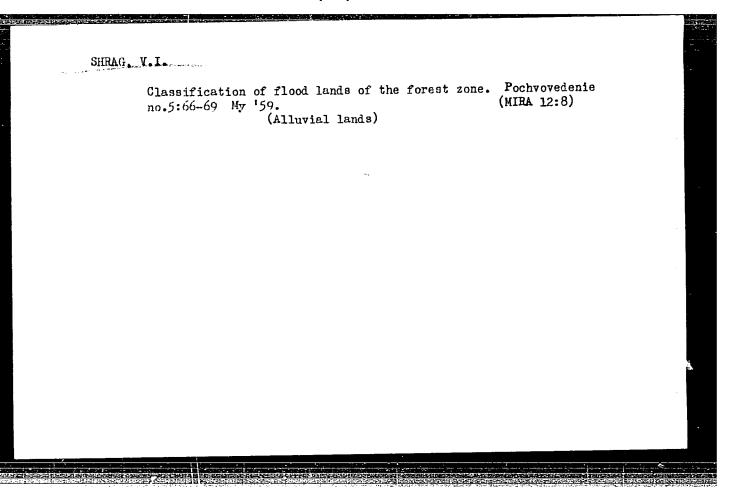
- 1. MAZHAROV, P.P.; VASILIYEY, V.M.; SHRAG, V.I.
- 2. USSR (600)
- 4. Mazharov, P.P.
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SHRAG, V.I. (Moskva); DOLGOV, S.I. (Moskva); Zaydel'man, F.R. (Moskva).

Problem of irrigating soils with a pebbly substratum [with German summary in insert]. Pechvevedenic ne.5:67-79 My '56. (MLRA 9:9)

(Irrigation) (Soils)



SHRAG, Vala; ZAYDEL'MAN, F.R., kand. sel'khoz. nauk, red.

[Classification of floodland soils and their brief characteristics from the viewpoint of agricultural land improvement] Klassifikatsiia poimennykh pochv i ikh kratkaia agromeliorativnaia kharakteristika. Moskva, Rosgiprovodkhoz Gosvodkhoza RSFSR, 1961. 105 p. (MIRA 15:9) (Alluvial lands)

SHRAGE, L.Ya.

Safety measures in the construction of urban gas mains.
Stroi. truboprov. 8 no.9:30-31 S \*63. (MIRA 16:11)

1. Trest Rosgazstroy.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

USSR/Cultivated Plants - Potatoes, Vageuables, Melons.

11-5

Abs Jour

: Ref Zhur - Biol., No 5, 1950, 39305

Author

: Shragin, D.I.

Inst

: Fruit-Vegetable Institute inchi I.V. Michurin

Title

: The Utilization of Bottonland for Irrigated Vegetable

Crops.

Orig Pub

: Tr. Mode woshelm. in-ta in. I.V. Michurina, 1956, 9,

201-223.

Abstract

: The characteristics of the bettenlands of the Vormenh, Tsma, Chelmovaya, Bityug and Vorona rivers in the Voronezh oblast are given in this paper. Suggestions on the utilization of these lands for vegetable crops are also furnished in this paper, as well as data gathered by the Fruitand Vegetable Institute on the utilization of ground waters in bottomlands by artificial sprayings. As a result of

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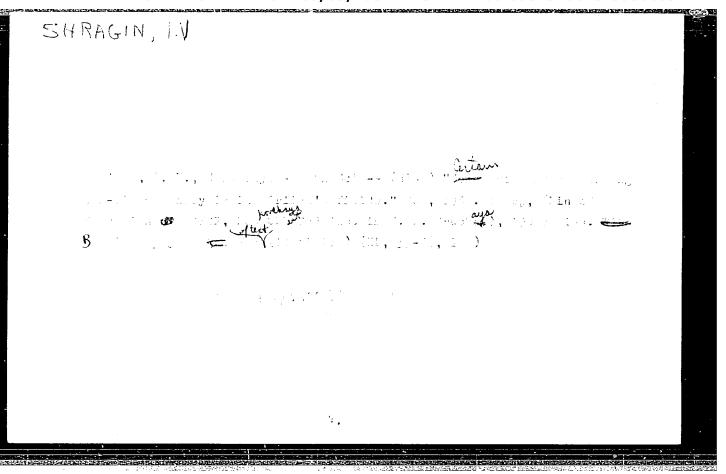
### SHRAGIN, I.V.

On certain operators in generalized Orlich spaces. Dokl. AN SSSR 117 no.1:40-43 N-D '57. (MIRA 11:3)

1. Moskovskiy oblastnoy pedagogicheskiy institut. Predstavleno akademikom S.L.Sobolevym.

(Operators (Mathematics)) (Spaces, Generalized)

20-1-9/42 SHRAGIN, I.V. AUTHOR: On Some Operators in Generalized Orlicz Spaces (O nekotorykh operatoralh v obobshchennykh prostranstvakh Orlicha) TITLE: Doklady Akad. Nauk SSSR, .. 1957, Vol. 117, Nr 1, pp. 40-43 (USSR) PERIODICAL: If a non-linear integral equation of Hammerstein ABSTRACT:  $u(x) = \Gamma u \equiv \int_{B} K(x,y)g(u(y),y)dy$ , is given, then the operator [ is the product of a linear integral operator  $Au = \int K(x,y) u(y) dy$  and of the operator hu = g(u(x),x). In the present paper the author investigates the conditions under which h is weakly continuous. Let M (u) be one of the Young functions,  $L^{M}$  a generalized Orlicz-space defined according to Orlicz, furthermore let be  $d = \sup \left\{ u \in [0,\infty) : M(u) < \infty \right\}$ . Now if there are given two arbitrary Orlicz-spaces  $\mathbf{L}^{\mathbf{M}}$  and  $\mathbf{L}^{\mathbf{M}_{\mathbf{1}}}$  , then the author introduces the auxiliary functions  $f_c(v) = \sup \{u \in [0,d): M_1(uv) > c M(u)\} \text{ and } F_c(v) = vf_c(v),$ Card 1/2



16(1)

sov/155-58-2-22/47

AUTHOR:

On a Nonlinear Operator (Ob odnom nelineynom operatore)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,

1958, Nr 2, pp 103-105 (USSR)

ABSTRACT:

The author considers the operator h, in the Soviet literature often denoted as the Nemytskiy-operator:

hu = g(u(x),x),

where g(u,x) is a real function. Let C be the space of continuous functions and  $L^M=L^M(F)$  be an Orlicz space generalized in the sense of Zaanen. Let  $L^1_M$  be a

subspace of  $L_{\mu}$  to which there belong all functions with absolutely continuous norms. Let  $L_p$  be the class of all functions u(x) for

which  $\int P[|u(x)|] dx < \infty$ , where F is a bounded closed set with

the Lebesgue measure in the finite-dimensional Euclidean space and P(u) is a nonnegative, not decreasing function defined on  $[0,\infty)$ .

Theorem 3: In order that h transforms C into  $\mathbf{L}^{\mathbf{M}}$  it is necessary

Card 1/2

AUTHOR: Vaynberg, M.M., Shragin, I.V.

20-120-5-3/67

TITLE:

The Operator of Nemytskiy and its Potential in Orlicz-Spaces

(Operator Nemytskogo i yego potentsial v prostranstvakh Orlicha)

PERIODICAL: Doklady Akademii nauk SSSR, Vol 120, Nr 5, pp 941-944 (USSR) 1958

ABSTRACT:

The Nemytskiy operator h and its potential f, already investigated for several times by one of the authors [Ref 1,2,3] (especially in connection with the nonlinear integral equations of the type of Hammerstein) are considered in the Orlicz-spaces generalized according to Zaanen [Ref 5]. The authors give necessary and sufficient conditions that h transfers functions of the classes

 $L^{M}$ ,  $L_{M}$ ,  $L_{M}^{K}$  into such coes of  $L^{M_{1}}$ ,  $L_{M_{1}}$ ,  $L_{M_{1}}^{K}$ . Furthermore,

conditions for the boundedness and continuity of h as well as conditions for the continuity and weak semicontinuity of f are given. Altogether ten theorems are formulated.

There are 12 references, 7 of which are Soviet, 3 Polish and 2 Dutch.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy

(Pedagogical Institute of the Moscow Oblast imeni N.K.Krupskaya)

PRESENTED: February 7, 1958, by S.L. Sobolev, Academician

SUBMITTED: February 7, 1958

1. Topology 2. Operators (Mathematics)

Card 1/1

VAINBERG, M.M.; SHRAGIN, I.V.

Hew theorems for nonlinear operators and equations. Uch.
zap.MOPI 77:131-144 '59.

(Integral equations) (Operators (Mathematics))

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930009-1"

VAINBERG, M.M.; SHRAGIN, I.V.

Hemytekii's operator in Orlicz's generalized spaces. Uch.zap.

MOPI 79:145-160 '59. (MIRA 13:5)

(Operators(Mathematics)) (Spaces, Generalized)

88884

s/044/60/000/007/040/058 C111/C222

16.4600

AUTHOR:

Shragin, I.V.

TITLE:

The Nemytskiy-operator from C into  $\mathtt{L}^{\mathtt{M}}$ 

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 153-154.
Abstract no.7878. Uch.zap.Mosk.obl.ped.in-ta, 1959, 77,

TEXT: Let F be a bounded closed set of the n-dimensional Euclidean space, C be the space of functions being continuous on F,  $L^{\underline{M}}=L^{\underline{M}}(F)$  be the Orliecz space generalized according to Zaanen, and  $L_{\overline{M}}^{\overline{\Lambda}}$  be a subspace of L<sup>M</sup> (abstract 7879). Let g(u,x) be the function generating the Nemytskiy operator h, hu = g(u(x),x), and  $a(x) = \sup_{|x| \le x} |g(u,x)|$ ,  $x \in F$ .

The author proves the following theorems: 1. In order that h acts from C into  $L^M$  (from C into  $L^M$ ) it is necessary and sufficient that  $a(x) \in L^M$  ( $a(x) \in L^M$ ) for every 0 > 0. 2. If h acts from C into  $L^M$  then it acts from  $L^M$  into  $L^M$  and is bounded from C into  $L^M$ . 3. Let P(u) be

a nonnegative nondecreasing function defined on  $[0,\infty]$ ; let  $L_p$  be the

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The Nemytskiy-operator... S/044/60/000/007/040/058 class of all real functions u(x) for which  $\int_F P(|u(x)|)dx < \infty$ , Then, for the fact that h acts from C into  $L_p$  it is necessary and sufficient that  $a_{\alpha}(x) \in L_p$  for every  $\alpha \ge 0$ . 4. If h acts from C into  $L_M$  then it is continuous and weakly continuous. 5. In order that h maps the space C into itself it is necessary and sufficient that the following condition of the topological product  $(-\infty, +\infty) \times F'$ , where F' is the derivative set of the set F. 6. In order that h is bounded from C into C it is necessary and sufficient that g(u,x) on  $[-\alpha, +\alpha] \times (F \setminus F')$  is bounded for every  $\alpha \ge 0$  and that the condition (1) is satisfied. 7. In order that h is continuous or weakly continuous from C into C it is necessary and sufficient that g(u,x) is continuous from C into C it is necessary and sufficient that g(u,x) is continuous on  $(-\infty, +\infty) \times F$ . [Abstracter's note: The above text is a full translation of the original

Card 2/2

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88885

5/044/60/000/007/041/058 C111/C222

16.4600 AUTHOR:

Shragin, I.V.

TITLE:

On the weak continuity of the Nemytskiy operator in

generalized Orliecz spaces

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 154. Abstract no.7879. Uch.zap.Mosk.obl.ped.in-ta, 1959, 77,

169-179

TEXT: Let B be a set with a finite or infinite measure in the finitedimensional Euclidean space; let  $L^M = L^M(B)$  and  $L^M = L^M (B)$  be generalized Orliecz spaces according to Zaanen. It is assumed that the function  $\mathtt{M}(\mathtt{u})$  of Jung is finite for every finite u. Let  $\mathtt{L}_{\mathtt{M}}$  be the class of real functions u(x) for which M(|u(x)|)dx is finite; let  $L_M^{\mathcal{K}}$  be a

subspace of  $L^{M_{\parallel}}$  consisting of functions u(x) for which  $M(k|u(x)|)dx < \infty$ 

for every k > 0. The author investigates the linear operator H, Hu=b(x)u, where b(x) is a real function measurable on B and the Nemytskiy operator Card 1/3

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On the weak continuity ...

h, hu = g(u(x),x). Lemma: In order that H acts from  $L_M^{\chi}$  into LM it is necessary and sufficient that the following condition is satisfied: (1) for certain positive c and  $\chi$  it holds  $f_c(\chi|b(x)|) \in L_M$ , where

 $f_c(v) = \sup \{u: 0 \le u < \infty, M_1(uv) \ge cM(u)\}$